



## ADAM17 SELECTIVE SUBSTRATE

### Fluorescent Substrate: Dabcyl-EHADLLAVVAK(5FAM)-NH<sub>2</sub>

**Catalog Number:** PEPDAB014

**Use:** This fluorescent peptide substrate is used primarily to assess activity of ADAM17 and has been used in vitro in enzymatic and cell based assays. Typically, the peptide is dissolved in DMSO to make a stock solution of about 10mM concentration. When used for in vitro assays, the substrate is often used at about 10 $\mu$ M concentration. For use with ADAMs, the buffer should consist of 25mM Tris, pH 8, 6 x 10<sup>-4</sup> Brij detergent, and 10mM CaCl<sub>2</sub>. If used with ADAM17 or ADAM10, the CaCl<sub>2</sub> is not required. Excitation and emission wavelengths are 485 and 530 nm respectively.

**Molecular Weight:** 1668.5 g/mol

**Purity:** Greater than 95% as assessed by HPLC and Mass Spectrometry.

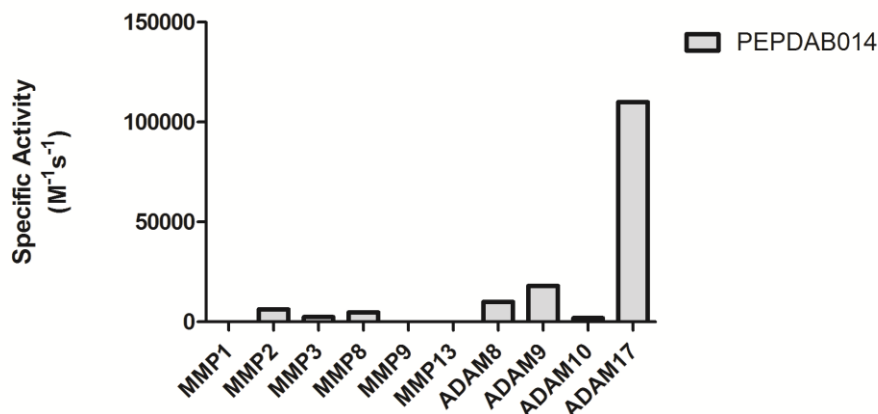
**Solubility:** 1 mg/ml in water

**Appearance:** Red lyophilized powder

**Shipping:** The peptide powder is shipped at room temperature.

**Storage:** Upon receiving, the peptide should be stored at -20 °C or below. Avoid repeated freeze-thaw cycles. If dissolved in liquid (such as DMSO), aliquot into separate tubes to minimize the number of freeze-thaw cycles.

**Stability:** Samples are stable up to 6 months at -20°C or below.



**References:** [Fluorescent substrates useful as high-throughput screening tools for ADAM9.](#)

Moss ML, Rasmussen FH, Nudelman R, Dempsey PJ, Williams J. Comb Chem High Throughput Screen. 2010 May;13(4):358-65.